

Lockheed Martin IS&GS – Civil
Energy & Environment
ESAT Region 3
US EPA Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350

Ex. 4 - CBI



January 26, 2012

Ms. Colleen Walling
ESAT Region 3 Project Officer
U.S. EPA Region III
OASQA
701 Mapes Road
Environmental Science Center
Ft. Meade, MD 20755-5350

Dear Colleen:

Enclosed please find the weekly progress report detailing Region III ESAT activities for the period January 16 through January 22, 2012 for contract EP-W-06-016, Task Orders #0035 through 0039. The weekly progress report is comprised of Weekly Task Order Highlights and Task Order/Sub-Task Tables. All information compiled in the Task Order tables is cumulative for the current month. I trust this progress report meets your needs. Should you have questions or comments, please do not hesitate to call me.

Sincerely,

Ex. 4 - CBI

ESAT Region 3 Program Manager

Enclosures

Weekly Highlights (January 16 through January 22, 2012)

Management

The ESAT PM met with the ESAT PO to discuss current tasks and financial status of all task orders. All tasks are proceeding on schedule. We continue to provide the ESAT PO a weekly ad-hoc data validation status and CEAT audit back-log reports.

ESAT staff member **Ex. 4 - CBI** resigned from Lockheed Martin effective December 16, 2011. He accepted a position with EPA at the Region III Environmental Science Center (ESC). The ESAT PM has evaluated resumes and held interviews to fill the vacant position. An offer has been extended to the selected candidate.

Task Order 0036, Analytical and Laboratory Support

January 18, 2012, ESAT received an email from EPA WAM Robin Costas through the ESAT PO that listed minor changes in Element relative to some of the codes/flags and qualifiers soon to be implemented. A few of the codes/flags have been renamed, some have been added and a few others have been dropped. These changes will be discussed at the next EPA/ESAT Technical meeting scheduled for January 24, 2012.

Task Order 0037, Data Validation and Quality Assurance Support

An estimated 2,358 sample/aliquot analyses were booked this week. The majority of these analyses are associated with the Dimock Residential Groundwater site.

Task Order 0038, PM2.5, Performance Evaluation Program (PEP) Field Support and Pb Performance Evaluation Program Field Support

ESAT has completed PEP audits for the 2011 calendar year. Planning for the 2012 calendar year is currently under way.

Task Order 0039, Non-PM2.5 Performance Evaluation Program Field Support

ESAT has completed Through-the-Probe (TTP) audits for the 2011 calendar year. Planning for the 2012 calendar year is currently under way.

December 19, 2011 through January 22, 2012

Task Order 0036

Task 1 - Analytical and Laboratory Support - Site Specific

Nonresponsive

P = Preliminary report, F = Final report

December 19, 2011 through January 22, 2012

**Task Order 0035, Mountain Top Mining Stream Monitoring Analytical & Laboratory Support
Analytical and Laboratory Support - Site Specific**

WO#	TDF	Site / Request #	Samples / Matrix	Assigned	Due	Submitted	Accepted	Status
1111016	11050	MTM Data Validation NSF 600	15 Aqueous, Chloride & Sulfate	11/21/11	12/15/11	12/8/11	12/19/11	The final report was consolidated 12/19/11. Fifteen samples were received 11/16/11.

**Task Orders 0028, 0035 & 0036
Analytical and Laboratory Support – Non-Site Specific**

Task	Description	Activity	
2	Instrument Maintenance	See Task 8 below for comments relative to the new Agilent GC/MS instrument located in Room H202 and the new Dionex Ion Chromatograph instrument located in Room G103. All other instruments were fully functional.	
3	Sample Custody	New Requests	Not Responsive
		Canister Deliveries	Evacuated canisters were shipped this week for Standard Chlorine of Delaware, Inc. (DAS# R33903) and Vienna Tetrachloroethene (DAS# R33913). No evacuated canisters are scheduled to be shipped next week.
		ESAT Sample Receipt	No ESAT samples were received this week.
		EPA Sample Receipt	EPA Superfund samples were received by ESAT this week for Not Responsive (WO# 1201006 & 1201008).
		Report Consolidation	Final reports were consolidated this week for Not Responsive (WO# 1112021) and Not Responsive (WO# 1112022).
4	Glassware Cleaning and Lab Cleanliness	Both glassware washing units and Oven #2 were fully functional. Oven #1 has been taken out of service and ESC Facilities has been notified that this unit has failed to reach specified temperature. ESC Facilities performed diagnostics on the oven; however, they were unable to determine the cause of the malfunctions observed by ESAT. ESAT will continue to monitor the functionality of the oven for a currently undetermined period before the resumption of utilizing this unit for glassware cleaning activities.	
5	Reagents and Supplies	The weekly chemical inventory was completed 1/20/12, and the report was submitted to the PO.	

December 19, 2011 through January 22, 2012

Task Orders 0028, 0035 & 0036

Analytical and Laboratory Support – Non-Site Specific

Task	Description	Activity
6	Lab Safety	On 1/19/12, ESAT Chemist Ex. 4 - CBI attended the ESC Waste Committee Meeting held in the V/T Conference Room.
7	Review SOPs and Guidance Documents	TDF 04096 / TO 0028, assigned 4/26/10, due 5/14/10 – This TDF specifies that ESAT shall review and provide comments / recommended changes of the draft revision (4/25/10) for SOP R3QA213, Distillation of Methylene Chloride Resulting from the Extraction of Aqueous Samples. The SOP with embedded comments and recommendations was submitted 5/14/10. ESAT is currently awaiting Agency feedback.
8	New Capabilities/Method Development	<p>TDF 01001 / TO 0028, assigned 1/3/11, due 1/4/11 by 10:00 am – ESAT was tasked to provide a brief written description stating ESAT's current capability for performing low-level hexavalent chromium in water analysis based on ESAT's recent study. ESAT shall include the lowest quantitation limits achieved successfully including any issues, concerns, problems, recommendations or note-worthy comments for performing these analyses. This final report was submitted 1/3/11. ESAT is currently awaiting Agency feedback.</p> <p>TDF 03061, TO-15 Pilot Study – Draft/Verbal Technical Direction, Assigned 3/17/11, Various Interim Due Dates (Final Report Due 6/30/11) – As a result of the TO-15 Pilot Study Conference Call held 3/14/11, ESAT was assigned to complete the tasks listed below, which have been completed.</p> <ul style="list-style-type: none"> • Prepare a set of test bottles (1 under vacuum and 1 without vacuum) and a micro vacuum gauge with one connector for field samplers to utilize / test sample collection procedures for the Air Pilot Study by the end of the week. Sample containers shall be shipped in a shipping case. • Field Sampler will test on Friday and provide feedback / results of testing bottles. • Check with Entech to determine how existing sampling line would connect to the bottles for field sampling. • Prepare canisters (1 per location / sample station) and sample bottles (2 per station location / sample station). In addition, include a return shipping label/UPS air bill to be sent to the field samplers for sampling the first full week of April (4/4/11 thru 4/8/11) for the April sampling. Two stations were selected at the North Penn Area 6 site for the air pilot study: WSINFA and WSCARBA. <p>The analyses of air samples have been completed for the Summa canisters and amber bottles, received from the North Penn Area 6 site under DAS# R33677. A report containing a review and comparison of the results obtained from these analyses was submitted 7/13/11. The report was returned to ESAT and we are currently awaiting a feedback form from the sampler. The return of the micro-vacuum gauge is also currently pending.</p> <p>TDF 09066 / TO 0036, assigned 9/29/11, final report due 9/26/11 through 10/7/11 – ESAT was assigned the task of assisting, observing and providing technical information during the installation of the Entech/Agilent GC/MS system for air VOCs. In addition, ESAT shall participate in the on-site vendor training for the operation and maintenance of the Entech/Agilent GC/MS instrumentation. Moreover, ESAT may be required to operate the instrumentation during the installation process to gain knowledge of the combined system. ESAT shall provide a brief summary of key elements observed during the installation and training in the weekly report. Installation of the Entech system has been completed;</p>

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Task Orders 0028, 0035 & 0036

Analytical and Laboratory Support – Non-Site Specific

Task	Description	Activity
		<p>however, ESAT and Entech had to resolve standard calibration issues, i.e., high %RSD for early eluting compounds, as well as computer to Entech autosampler / pre-concentrator communication issues. On 11/10/11, EPA WAM Sue Warner notified ESC Computer Support via an email that a replacement Dell computer would be needed with either XP or XP Pro operating software. The new PC was issued week ending 12/4/11. On 12/1/11, a representative from Agilent service installed the Agilent software on the new PC, and on 12/6/11, Entech service installed the Entech software on the new computer. Various exercises were successfully performed upon completion of the new software installation that demonstrated the new computer and software resolved the communication issues. During the EPA/ESAT monthly Technical Meeting held 12/20/11, ESAT was informed that delivery of a new EPA-assigned Entech / Agilent GC/MS instrument to be utilized for pending air analyses expected to begin in March 2012 has been delayed. Consequently, the ESAT assigned GC/MS instrument will be shared by both EPA and ESAT personnel until the new instrument is received. EPA Chemist Ex. 4 - CBI and ESAT Chemist Ex. 4 - CBI have performed tests that verified the instrument is fully functional.</p> <p>TDF 10070, New Dionex Ion Chromatography (IC) Instrument Installation and Training, verbal direction issued 10/27/11, brief summary to be included in Weekly Report – ESAT was assigned the task of providing technical expertise and be present/available for the Dionex Ion Chromatography (IC) instrument installation; and, attend the Dionex training on November 8 and 9, 2011. ESAT may be required to provide information or answer questions relative to the operation of the IC instrumentation or the performance of IC parameters. Activities relative to the installation of the instrument were initiated 11/8/11; however, ESAT was informed by the Dionex representative that additional time (11/29-12/1/11 and beyond) was needed to complete the installation / training process. A Dionex personnel visited 12/20/11, at the end of their visit, the anions component was partially operational; however, the hexavalent chromium module was non-functional. Additional activities relative to the instrument installation by Dionex service are currently pending. Final installation activities were completed this week on the new Dionex Ion Chromatograph ICS-5000. A new UV-detector was installed for hexavalent chromium analyses and the instrument is now fully functional. Training on this instrument is scheduled for 1/24-25/12.</p>
9	Quality Assurance Compliance and Documentation	<p>No documents were received by ESAT for login this week.</p> <p>TDF 12002, Follow-up to QC Walk-thru Internal Assessment, assigned 12/1/11, due 1/31/12 – As a follow-up inspection to the QC Walk-thru originally performed in May, 2011, ESAT was assigned the task of participating in a follow-up inspection with EPA for the ESAT-operated laboratories. The purpose of the follow-up inspection is to verify that each non-conformance from the original QC Walk-thru has been corrected. The final report, submitted 1/11/12, was accepted 1/17/12.</p> <p>TDF 12064 – Prepare Listing of Cases/DASs & Sample Numbers for Disposal – Stored in Refrigerator as a Result of Litigation Holds, assigned 12/20/11, summary report due 1/20/12 – ESAT was given direction to complete the following tasks that are currently in progress.</p> <ul style="list-style-type: none"> ESAT is to determine and prepare a listing of the sites and associated sample numbers for cases/DASs that are being stored in the ESAT sample refrigerator located in Room J102 that may be ready for disposal depending on

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Task Orders 0028, 0035 & 0036

Analytical and Laboratory Support – Non-Site Specific

Task	Description	Activity
		<p>the status of the litigation holds for each site in question.</p> <ul style="list-style-type: none">• ESAT will submit copies of the report to EPA Laboratory Branch Chief Cynthia Caporale, EPA Records Manager Annette Lage, EPA WAMs Kevin Martin and John Curry, and EPA Technical Services Branch Chief Fred Foreman. <p>The summary report was submitted 1/18/12. ESAT is currently awaiting Agency feedback.</p> <p>On 1/6/12, the ESAT PO gave ESAT verbal technical direction via an email to perform the annual EDD check for each method/matrix that they currently report. Activities relative to this task are currently in progress.</p>

Task Order 0037, Task 1 - Review and Validate Organic Data

Level of Review: M1

Nonresponsive

Task Order 0037, Task 1 - Review and Validate Organic Data

Level of Review: M2

Nonresponsive

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Task Order 0037, Task 1 - Review and Validate Organic Data
Level of Review: M2

Nonresponsive

Task Order 0037, Task 1 - Review and Validate Organic Data
Level of Review: M3

Nonresponsive

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Task Order 0037, Task 1 - Review and Validate Organic Data
Level of Review: M3

Nonresponsive

Task Order 0037, Task 1 - Review and Validate Inorganic Data
Level of Review: IM1

Nonresponsive

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Task Order 0037, Task 1 - Review and Validate Inorganic Data
Level of Review: IM1

Nonresponsive

Task Orders 0035 and 0037, Task 1 - Review and Validate Inorganic Data
Level of Review: IM2

Nonresponsive

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Task Orders 0035 and 0037, Task 1 - Review and Validate Inorganic Data
Level of Review: IM2

Nonresponsive

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Task Orders 0035 and 0037, Task 1 - Review and Validate Inorganic Data
Level of Review: IM2

Nonresponsive

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Task Orders 0035 & 0037, Regional Sample Control Center

Task	Description	Period Covering					Comments
2	Data Tracking	12/19-12/25/11	12/26/11-1/1/12	1/2-1/8/12	1/9-1/15/12	1/16-1/22/12	
	RAS requests received	1	1	6	8	5	
	DAS requests received	1	3	4	2	8	
	Estimated number of samples booked	30	191	345	559	2,358	
	Data Package Status Report	1	1	1	1	1	
2	Document Control						
	Samples audited	153	202	256	213	120	
	SDGs received	17	12	18	10	17	
	SDGs audited (with billable units)	20	17	18	24	19	
	SDGs awaiting audit	61	50	53	36	35	Includes 5 SDGs for Mountain Top Mining.
	COC received	32	0	53	50	12	
	Validation reports transmitted	9	11	15	14	9	
	Audit responses	0	0	0	0	0	
	Lab responses	0	1	0	0	1	
	Memos to file	2	1	4	0	0	
4	Archived	13 cases; 15 SDGs	11 cases; 13 SDGs	13 cases; 18 SDGs	0	24 cases; 27 SDGs	

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Task Order 0038, PM2.5 Performance Evaluation Program (PEP) Field Support

TDF	Sites	Site Visit			Trip Report		Comments
		Set-Up	Take-Down	Returned to ESC	Due	Completed	
ESAT has completed the PEP audits for the 2011 calendar year. Planning for the 2012 calendar year is currently under way.							

Task Order 0038, PM2.5 Performance Evaluation Program (PEP) Field Support

Tasks - Non-Site Specific

Task	Description	Activity/Comments
1	Develop Site Sampling Schedule	<p>On 12/20/11, the ESAT PM, ESAT field personnel and EPA PO attended a teleconference with the Region 3 EPA TOPO/WAM regarding the site selection of state and local PM2.5, PMcourse and Pb PEP sites to be audited for the 2012 calendar year. Also, various outstanding issues and concerns were also discussed during the teleconference. Planning for the 2012 calendar year is currently under way.</p> <p>On 12/28/11, ESAT submitted the January 2012 PEP audit schedule to the EPA WAM/TOPO and PO. No site audits are currently scheduled to occur during January 2012. However, a PEP teleconference is tentatively scheduled to occur during the week of 1/23/12. As an update, as per the PEP program lead Dennis Crumpler (on 1/23/12), this teleconference has been cancelled. However, a Pb PEP teleconference is tentatively scheduled to occur on 3/6/12.</p>
2	Field Support	On 12/27/11, ESAT conducted an inventory on all capital equipment and materials included under this task order that are currently in non-working condition. Equipment under this task order that is currently not needed was also included on this inventory. On 12/29/11, this list of materials was forwarded to the ESAT PM. ESAT is awaiting a decision from EPA regarding the final destination of these items.
3	QA/QC Support	On 1/16/12, a BGI Delta Cal standard (serial number 193) was shipped to the EPA RTP facilities in Durham, NC for Round 1 of the 2012 standard re-certification. All parameters for this device (ambient/filter temperature, ambient pressure and flow) will be verified against a traceable standard.
4	Maintenance & repair of vehicle	None
	Maintenance & repair of sampling equipment	On 1/20/12, PM2.5 audit devices with serial numbers 239 and 380 were shipped to the vendor BGI for yearly maintenance. This maintenance involves replacement of all o-rings within the sampling train, rebuilding of the pump assembly, inspection of the sampler motor and re-calibration of all audit device parameters (ambient/filter temperature, ambient pressure and flow).
5	Training	None
6	Monitoring Site Reconnaissance	None

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Task Order 0039, Non-PM2.5 Performance Evaluation Program Field Support

TDF	Site	Parameters	Site Visit			Trip Report		Comments
			Conditioning & Warm Up	Audit Performed	Returned to ESC	Due	Completed	
ESAT has completed the TTP audits for the 2011 calendar year. Planning for the 2012 calendar year is currently under way.								

Task Order 0039, Non-PM2.5 Performance Evaluation Program Field Support

Tasks - Non-Site Specific

Task	Description	Activity/Comments
2	Field Implementation Support	<p>On 12/20/11, the ESAT PM, ESAT field personnel and EPA PO attended a teleconference with the Region 3 EPA TOPO/WAM regarding the site selection of state and local through-the- probe (TTP) sites to be audited for the 2012 calendar year. Also, various outstanding issues and concerns were also discussed during the teleconference. Planning for the 2012 calendar year is currently under way.</p> <p>On 12/27/11, ESAT conducted an inventory on all capital equipment and materials included under this task order that are currently in non-working condition. Equipment under this task order that is currently not needed was also included on this inventory. On 12/29/11, this list of materials was forwarded to the ESAT PO. EPA will decide the final destination of these items.</p> <p>On 12/28/11, ESAT submitted the January 2012 TTP audit schedule to the EPA WAM/TOPO and PO. No site audits are currently scheduled to occur during January 2012.</p>
3	QA/QC Support	None
5	Maintenance & repair of vehicle	None
	Maintenance & repair of sampling equipment	On 1/19/12, maintenance was performed on the TTP case based system EnviroNics 9100 gas calibrator (SN 112). All loose screws, nuts, bolts and circuit boards were tightened. As the firmware was inadvertently reset during this process, a re-initialization procedure was performed subsequently after to get the calibrator software re-established.
6	Training	None